

**EPA Region 8 QA Document Review Crosswalk**

QAPP, Review and Organization of Existing Environmental Data for Upper Animas Mining District, San Juan County, Colorado

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**EPA REGION 8 QA DOCUMENT REVIEW CROSSWALK**

|   |  |   |   |
|---|--|---|---|
| <b>QAPP/FSP/SAP for:</b><br>(check appropriate box)               | <b>Entity</b> ( <i>grantee, contractor, EPA AO, EPA Program, Other</i> )   | <b>Regulatory Authority</b><br>EPA and/or<br><b>Funding Mechanism</b> | <input type="checkbox"/> 40 CFR 31 for Grants<br><input type="checkbox"/> 48 CFR Part 46 for Contracts<br><input checked="" type="checkbox"/> <b>Interagency Agreement</b><br><input type="checkbox"/> EPA Administrative Order<br><input type="checkbox"/> EPA Program Funding<br><input type="checkbox"/> EPA Program Regulation<br><input type="checkbox"/> EPA CIO 2105 |
| <input type="checkbox"/> <b>GRANTEE</b>                           | U.S. Army Corps of Engineers, 1616 Capital Avenue, Omaha, NE 68102   |   |   |
| <input type="checkbox"/> <b>CONTRACTOR</b>                        |  |   |   |
| <input type="checkbox"/> <b>EPA</b>                               |  |   |   |
| <input checked="" type="checkbox"/> <b>Other</b>                  |  |   |   |
| <b>Document Title</b><br>[Note: Title will be repeated in Header] | QAPP, Review and Organization of Existing Environmental Data for Upper Animas Mining District, San Juan County, Colorado |   |   |
| <b>QAPP/FSP/SAP Preparer</b>                                      | CB&I Federal Services LLC  |   |   |
| <b>Period of Performance</b><br>(of QAPP/FSP/SAP)                 | May 7, 2015 to November 13, 2015   | <b>Date Submitted for Review</b>                                      | June 1, 2015  |
| <b>EPA Project Officer</b><br><b>EPA Project Manager</b>          | Paula Schmittiel, Remedial Project Manager, EPA  | <b>PO Phone #</b><br><b>PM Phone #</b>                                | 303-312-6861  |
| <b>QA Program Reviewer or Approving Official</b>                  | Christopher Fassero, Project Manager, USACE; 402-995-2679  | <b>Date of Review</b>   | June 15, 2015   |

  

| <b>Documents to Review:</b><br>1. QAPP written by Grantee or EPA must also include for review:<br>[Work Plan (WP) / Statement of Work (SOW) / Program Plan (PP) / Research Proposal (RP)]<br>2. QAPP written by Contractor must also include for review:<br>a) Copy of signed QARF for Task Order<br>b) Copy of Task Order SOW<br>c) Made available hard or electronic copy of approved QMP<br>d) If QMP not approved, provide Contract SOW<br>3. For a Field Sampling Plan (FSP) or Sampling & Analyses Plan (SAP), the Project QAPP must also be provided.<br><b>OR</b><br>The FSP or SAP must be clearly identified as a stand-alone QA document and must contain all QAPP required elements (Project Management, Data Generation/Acquisition, Assessment and Oversight, and Data Validation and Usability). | <b>Documents Submitted for QAPP Review:</b><br>1. <b>QA Document(s) submitted for review:</b> <table border="1"> <thead> <tr> <th>QA Document</th> <th>Document Date</th> <th>Document Stand-alone</th> <th>Document with QAPP</th> </tr> </thead> <tbody> <tr> <td>QAPP</td> <td></td> <td>Yes / No</td> <td></td> </tr> <tr> <td>FSP</td> <td></td> <td>Yes / No</td> <td>Yes / No</td> </tr> <tr> <td>SAP</td> <td></td> <td>Yes / No</td> <td>Yes / No</td> </tr> <tr> <td>SOP(s)</td> <td></td> <td></td> <td>Yes / No</td> </tr> </tbody> </table> 2. <b>WP/SOW/TO/PP/RP Date</b> _____<br><b>WP/SOW/TO/PP Performance Period</b> _____<br>3. <b>QA document consistent with the:</b><br>WP/SOW/PP for grants? <u>Yes / No</u><br>SOW/TO for contracts? <u>Yes / No</u><br>4. <b>QARF signed by R8 QAM</b> <u>Yes / No / NA</u><br><b>Funding Mechanism</b> <u>IA</u><br><b>Amount</b> _____ | QA Document          | Document Date      | Document Stand-alone | Document with QAPP | QAPP |  | Yes / No |  | FSP |  | Yes / No | Yes / No | SAP |  | Yes / No | Yes / No | SOP(s) |  |  | Yes / No |
|---|--|----------------------|--------------------|----------------------|--------------------|------|--|----------|--|-----|--|----------|----------|-----|--|----------|----------|--------|--|--|----------|
| QA Document   | Document Date  | Document Stand-alone | Document with QAPP |                      |                    |      |  |          |  |     |  |          |          |     |  |          |          |        |  |  |          |
| QAPP  |  | Yes / No             |                    |                      |                    |      |  |          |  |     |  |          |          |     |  |          |          |        |  |  |          |
| FSP   |  | Yes / No             | Yes / No           |                      |                    |      |  |          |  |     |  |          |          |     |  |          |          |        |  |  |          |
| SAP   |  | Yes / No             | Yes / No           |                      |                    |      |  |          |  |     |  |          |          |     |  |          |          |        |  |  |          |
| SOP(s)  |  |                      | Yes / No           |                      |                    |      |  |          |  |     |  |          |          |     |  |          |          |        |  |  |          |

  

|   |
|---|
| <b>Summary of Comments (highlight significant concerns/issues):</b><br>1. Comment #1 The EPA Crosswalk form and the Transmittal letter should be separate documents from the QAPP.<br>2. Comment #2<br>3. Comment #3<br>4. The U.S. Army Corps of Engineers, 1616 Capital Avenue, Omaha, NE 68102 must address the comments in the Summary of Comments, as well as those identified in the Comment section(s) that includes a "Response (date)" and Resolved (date)". |
|---|

**Comment [VJ1]:** EPA QUESTION: Is this the correct date for the POP?  
 CB&I RESPONSE: The correct POP is from May 7, 2015 to November 13, 2015.

**Comment [VJ2]:** EPA COMMENTS: A copy of the IA SOW should also be included with the Submittal of the final QAPP.  
 One of these should be submitted.  
 CB&I RESPONSE: The Performance Work Statement (PWS) has been included as Appendix A in the final QAPP.

**Comment [VJ3]:** EPA COMMENT: These have not been submitted with the QAPP at time of review.  
 CB&I RESPONSE: The Performance Work Statement (PWS) has been included as Appendix A in the final QAPP.

**Comment [VJ4]:** EPA COMMENT: The QARF is a requirement when EPA is doing the contracting. As for QMP, please reference the EPA approved USACE QMP. CB&I's QMP can include EPA requirements found in the R8 QA guidance on QMPs as well as any USACE requirements. These items can be submitted as one amendment to the approved QAPP when they are available. A copy of the SOW for the USACE task order should be submitted with the final QAPP submittal for a complete record.  
 CB&I RESPONSE: The EPA approved USACE QMP has been referenced in the Introduction (page 1) and added to the References (page 1).

**Comment [VJ5]:** EPA COMMENT: OK on 2<sup>nd</sup> submittal [i.e., final QAPP can include crosswalk as an appendix].

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| Element   | Acceptable<br>Yes/No/NA | Page/<br>Section | Comments  |
|---|-------------------------|------------------|---|
| <b>A. Project Management</b>  |                         |                  |   |
| <b>A1. Title and Approval Sheet</b>   |                         |                  |   |
| a. Contains project title   | Yes                     | Pg 2             | Also on first page (cover), not numbered - Site Name should be "Upper Animas Mining District", It is confusing to have some signatures on the cover page and others on Work sheet #1 – can they be combined? The Project name on page 2 should include the site name – Upper Animas Mining District. If b/c of the contracting-IA documents, this is not possible, then the Upper Animas Mining District should be listed in parentheses on title page and header.<br>The signature block has been removed from the cover page and all signatures are included on WS#1.<br>Site name has been changed to Animas River Mining District as requested, in title and in several text occurrences. |
| b. Date and revision number line (for when needed)  | Yes                     | *                | *Revision / date are in the document header<br>No action required.  |
| c. Indicates organization's name  | Yes                     | Pg 2             | This is not clear on page 2 – which organization is named.<br>Page 2 (WS#1/#2) now indicates organization name and position title above each signature line.  |
| d. Date and signature line for organization's project manager   | Yes                     | Pg 2             | The actual name, and title for each signatory should be provided in the signature block for each organization's approving official.<br>Same response as for A1.c above.   |
| e. Date and signature line for organization's QA manager  | Yes                     | Pg 2             | Same comment as d. above.<br>Same response as for A1.c above.   |
| f. Other date and signatures lines, as needed   | NA                      | Pg 2             |   |
| <b>A2. Table of Contents</b>  |                         |                  |   |
| a. Lists QA Project Plan information sections   | Yes                     | Pg i             |   |
| b. Document control information indicated   | Yes                     | *                | *Document control number is stated on cover page (not numbered)<br>No action required.  |
| <b>A3. Distribution List</b>  |                         |                  |   |
| Includes all individuals who are to receive a copy of the QA Project Plan and identifies their organization | Yes                     | Pg 6             | Should also include Elizabeth Fagan, EPA Remedial Project Manager for distribution. This chart is confusing b/c it is trying to fulfill 2 purposes. Elizabeth Fagan, RPM has been added to the chart, which satisfies requirements of the WS.   |
| <b>A4. Project/Task Organization</b>  |                         |                  |   |

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|   |     |                       |   |
|---|-----|-----------------------|---|
| a. Identifies key individuals involved in all major aspects of the project, including contractors   | NO  | Pg 7                  | CB&I's response says a Data Manager will be designated but the organization chart does not say who that will be. Please provide the page # in the QAPP.<br>CB&I has identified Barbara Matz as the Data Manager, and have added her name to the organization chart on page 7.   |
| b. Discusses their responsibilities   | Yes | Pg 7                  |   |
| c. Project QA Manager position indicates independence from unit generating data   | Yes | Pg 7                  | Based on the table on page 7, the independence of the QC (or is it QA?) manager is not clear.<br>The Org Chart has been modified to separate Oversight, including the Quality Manager, from Data Evaluation.  |
| d. Identifies individual responsible for maintaining the official, approved QA Project Plan   | Yes | Pg 7<br>Pg 9          | Maintenance of the QAPP a role of the Project QC Manager (p 7). Review and approval are provided by EPA, via the PM (p 9) It is not clear who with the contractor is responsible for maintaining the approved QAPP – perhaps a phrase can be added to Mr. Flynn's description.<br>"maintains the approved QAPP." has been added to Mr. Flynn's description on page 9. |
| e. Organizational chart shows lines of authority and reporting responsibilities   | Yes | Pg 6                  |   |
| <b>A5. Problem Definition/Background</b>  |     |                       |   |
| a. States decision(s) to be made, actions to be taken, or outcomes expected from the information to be obtained   | Yes | Section 11            |   |
| b. Clearly explains the reason (site background or historical context) for initiating this project  | Yes | Pg 1<br>Sec. 11       |   |
| c. Identifies regulatory information, applicable criteria, action limits, etc. necessary to the project   | NA  | NA                    |   |
| <b>A6. Project/Task Description</b>   |     |                       |   |
| a. Summarizes work to be performed, for example, measurements to be made, data files to be obtained, etc., that support the project's goals                                     | Yes | Sec. 11<br>Appendix A | Only shows a portion of the documents/data that may be available.<br>This is the list of documents known at time of QAPP creation. Additional documents will be added to the list as they are found.  |
| b. Provides work schedule indicating critical project points, e.g., start and completion dates for activities such as sampling, analysis, data or file reviews, and assessments | Yes | Sec. 14.1             |   |
| c. Details geographical locations to be studied, including maps where possible  | Yes | Figure 1              |   |
| d. Discusses resource and time constraints, if applicable   | Yes | Sec. 11.4             |   |
| <b>A7. Quality Objectives and Criteria</b>  |     |                       |   |

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|   |     |                     |  |
|---|-----|---------------------|--|
| a. Identifies<br>- performance/measurement criteria for all information to be collected and acceptance criteria for information obtained from previous studies,<br>- including project action limits and laboratory detection limits and<br>- range of anticipated concentrations of each parameter of interest | Yes | Sec. 11.6           |  |
| b. Discusses precision  | NA  | NA                  |  |
| c. Addresses bias   | NA  | NA                  |  |
| d. Discusses representativeness   | NA  | NA                  |  |
| e. Identifies the need for completeness   | Yes | Appendix B          | Document Evaluation Checklist, Page 2 of 2<br>No action required.  |
| f. Describes the need for comparability   | NA  | NA                  |  |
| g. Discusses desired method sensitivity   | NA  | NA                  |  |
| <b>A8. Special Training/Certifications</b>  |     |                     |  |
| a. Identifies any project personnel specialized training or certifications  | Yes | Pg 7                |  |
| b. Discusses how this training will be provided   | NA  | NA                  |  |
| c. Indicates personnel responsible for assuring training/certifications are satisfied   | NA  | NA                  |  |
| d. identifies where this information is documented  | NA  | NA                  |  |
| <b>A9. Documentation and Records</b>  |     |                     |  |
| a. Identifies report format and summarizes all data report package information  | Yes | Appendix B          | Document Evaluation Checklist, Page 1 of 2<br>No action required.  |
| b. Lists all other project documents, records, and electronic files that will be produced   | Yes | Sec. 14.1<br>Sec 29 |  |
| c. Identifies where project information should be kept and for how long   | Yes | Pg 14               | The length of time that project information will be kept should be stated.<br>All files will be provided to EPA as electronic attachment to Final Deliverable.   |
| d. Discusses back up plans for records stored electronically  | Yes | Pg 14               | Since most records are stored electronically, if those records were not obtained from EPA records center, then, how and where these records would be stored (or provided to EPA ) should be discussed.<br>All files will be provided to EPA as electronic attachment to Final Deliverable. |

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|  |    |    |  |
|--|----|----|--|
| e. States how individuals identified in A3 will receive the most current copy of the approved QA Project Plan, identifying the individual responsible for this | NA | NA |  |
| <b>B. Data Generation/Acquisition</b>  |    |    |  |
| <b>B1. Sampling Process Design (Experimental Design)</b>   |    |    |  |
| a. Describes and justifies design strategy, indicating size of the area, volume, or time period to be represented by a sample                                  | NA | NA |  |
| b. Details the type and total number of sample types/matrix or test runs/trials expected and needed  | NA | NA |  |
| c. Indicates where samples should be taken, how sites will be identified/located   | NA | NA |  |
| d. Discusses what to do if sampling sites become inaccessible  | NA | NA |  |
| e. Identifies project activity schedules such as each sampling event, times samples should be sent to the laboratory, etc.                                     | NA | NA |  |
| f. Specifies what information is critical and what is for informational purposes only  | NA | NA |  |
| g. Identifies sources of variability and how this variability should be reconciled with project information  | NA | NA |  |
| <b>B2. Sampling Methods</b>  |    |    |  |
| a. Identifies all sampling SOPs by number, date, and regulatory citation, indicating sampling options or modifications to be taken                             | NA | NA |  |
| b. Indicates how each sample/matrix type should be collected   | NA | NA |  |
| c. If in situ monitoring, indicates how instruments should be deployed and operated to avoid contamination and ensure maintenance of proper data               | NA | NA |  |
| d. If continuous monitoring, indicates averaging time and how instruments should store and maintain raw data, or data averages                                 | NA | NA |  |
| e. Indicates how samples are to be homogenized, composited, split, or filtered, if needed  | NA | NA |  |
| f. Indicates what sample containers and sample volumes should be used  | NA | NA |  |

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|   |    |    |  |
|---|----|----|--|
| g. Identifies whether samples should be preserved and indicates methods that should be followed   | NA | NA |  |
| h. Indicates whether sampling equipment and samplers should be cleaned and/or decontaminated, identifying how this should be done and by-products disposed of   | NA | NA |  |
| i. Identifies any equipment and support facilities needed   | NA | NA |  |
| j. Addresses actions to be taken when problems occur, identifying individual(s) responsible for corrective action and how this should be documented   | NA | NA |  |
| <b>B3. Sample Handling and Custody</b>  |    |    |  |
| a. States maximum holding times allowed from sample collection to extraction and/or analysis for each sample type and, for in-situ or continuous monitoring, the maximum time before retrieval of information                         | NA | NA |  |
| b. Identifies how samples or information should be physically handled, transported, and then received and held in the laboratory or office (including temperature upon receipt)   | NA | NA |  |
| c. Indicates how sample or information handling and custody information should be documented, such as in field notebooks and forms, identifying individual responsible  | NA | NA |  |
| d. Discusses system for identifying samples, for example, numbering system, sample tags and labels, and attaches forms to the plan  | NA | NA |  |
| e. Identifies chain-of-custody procedures and includes form to track custody  | NA | NA |  |
| <b>B4. Analytical Methods</b>   |    |    |  |
| a. Identifies all analytical SOPs (field, laboratory and/or office) that should be followed by number, date, and regulatory citation, indicating options or modifications to be taken, such as sub-sampling and extraction procedures | NA | NA |  |
| b. Identifies equipment or instrumentation needed   | NA | NA |  |
| c. Specifies any specific method performance criteria   | NA | NA |  |
| d. Identifies procedures to follow when failures occur, identifying individual responsible for corrective action and appropriate documentation  | NA | NA |  |

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|   |    |    |  |
|---|----|----|--|
| e. Identifies sample disposal procedures  | NA | NA |  |
| f. Specifies laboratory turnaround times needed   | NA | NA |  |
| g. Provides method validation information and SOPs for nonstandard methods  | NA | NA |  |
| <b>B5. Quality Control</b>  |    |    |  |
| a. For each type of sampling, analysis, or measurement technique, identifies QC activities which should be used, for example, blanks, spikes, duplicates, etc., and at what frequency | NA | NA |  |
| b. Details what should be done when control limits are exceeded, and how effectiveness of control actions will be determined and documented   | NA | NA |  |
| c. Identifies procedures and formulas for calculating applicable QC statistics, for example, for precision, bias, outliers and missing data   | NA | NA |  |
| <b>B6. Instrument/Equipment Testing, Inspection, and Maintenance</b>  |    |    |  |
| a. Identifies field and laboratory equipment needing periodic maintenance, and the schedule for this  | NA | NA |  |
| b. Identifies testing criteria  | NA | NA |  |
| c. Notes availability and location of spare parts   | NA | NA |  |
| d. Indicates procedures in place for inspecting equipment before usage  | NA | NA |  |
| e. Identifies individual(s) responsible for testing, inspection and maintenance   | NA | NA |  |
| f. Indicates how deficiencies found should be resolved, re-inspections performed, and effectiveness of corrective action determined and documented                                    | NA | NA |  |
| <b>B7. Instrument/Equipment Calibration and Frequency</b>   |    |    |  |
| a. Identifies equipment, tools, and instruments that should be calibrated and the frequency for this calibration  | NA | NA |  |
| b. Describes how calibrations should be performed and documented, indicating test criteria and standards or certified equipment   | NA | NA |  |
| c. Identifies how deficiencies should be resolved and documented  | NA | NA |  |
| <b>B8. Inspection/Acceptance for Supplies and Consumables</b>   |    |    |  |

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|  |     |        |   |
|--|-----|--------|---|
| a. Identifies critical supplies and consumables for field and laboratory, noting supply source, acceptance criteria, and procedures for tracking, storing and retrieving these materials | NA  | NA     |   |
| b. Identifies the individual(s) responsible for this   | NA  | NA     |   |
| <b>B9. Use of Existing Data (Non-direct Measurements)</b>  |     |        |   |
| a. Identifies data sources, for example, computer databases or literature files, or models that should be accessed and used  | NA  | NA     |   |
| b. Describes the intended use of this information and the rationale for their selection, i.e., its relevance to project  | NA  | NA     |   |
| c. Indicates the acceptance criteria for these data sources and/or models  | NA  | NA     |   |
| d. Identifies key resources/support facilities needed  | NA  | NA     |   |
| e. Describes how limits to validity and operating conditions should be determined, for example, internal checks of the program and Beta testing  | NA  | NA     |   |
| <b>B10. Data Management</b>  |     |        |   |
| a. Describes data management scheme from field to final use and storage  | NA  | NA     |   |
| b. Discusses standard record-keeping and tracking practices, and the document control system or cites other written documentation such as SOPs   | Yes | NA     | The QAPP should discuss some sort of system to track the compilation of data and documents – the organization and document tracking system.<br>A database will be created and maintained to list documents obtained and evaluation ranking of those reviewed.   |
| c. Identifies data handling equipment/procedures that should be used to process, compile, analyze, and transmit data reliably and accurately   | NA  | NA     |   |
| d. Identifies individual(s) responsible for this   | NO  | Page 7 | The QAPP should identify the key person responsible for organizing the records and documents reviewed for this work.<br>A Data Manager will be designated.<br>QAPP does not name who the person will be in the Org chart.<br>Barbara Matz will be the CB&I Data Manager, and has been identified in the organization chart on page 7. |
| e. Describes the process for data archival and retrieval   | NA  | NA     |   |
| f. Describes procedures to demonstrate acceptability of hardware and software configurations   | NA  | NA     |   |
| g. Attaches checklists and forms that should be used   | Yes | NA     | The Document Evaluation Checklist should be referred to.<br>It is referenced at various places in the text.   |

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| <b>C. Assessment and Oversight</b>  |     |         |  |
|---|-----|---------|--|
| <b>C1. Assessments and Response Actions</b>   |     |         |  |
| a. Lists the number, frequency, and type of assessment activities that should be conducted, with the approximate dates  | Yes | NA      | During the course of the review, there should be some oversight of the work and assessment activity to ensure that all project workers are following the same protocols. This can be a fairly simple description. The revised Org Chart breaks CB&I project staff into oversight and data evaluation groups.   |
| b. Identifies individual(s) responsible for conducting assessments, indicating their authority to issue stop work orders, and any other possible participants in the assessment process | Yes | NA      | See comment in a. above.<br>See response to C1.a above   |
| c. Describes how and to whom assessment information should be reported  | No  | Page 10 | Should this be the responsibility of the QC manager?<br>Information obtained by data evaluation staff will be reported to project oversight personnel.<br>The QAPP should specify who in Oversight is the responsible person and reference in the column to the left the page/worksheet where it is addressed.<br>CB&I Project Manager, David Cacciatore, is responsible for all reporting to USACE and EPA oversight personnel, as indicated in the worksheet on page 10. |
| d. Identifies how corrective actions should be addressed and by whom, and how they should be verified and documented  | Yes | NA      | According to the work sheet #6 on page 9, the QC manager is responsible for corrective action.<br>NOTE – There are a number of places in the QAPP where Mr. Flynn’s position isn’t consistent – in some places he is a QC manager and in the org chart, he is listed as a QA manager. Please clarify.<br>Mr. Flynn’s title is Quality Manager – this has been corrected in the worksheets.   |
| <b>C2. Reports to Management</b>  |     |         |  |
| a. Identifies what project QA status reports are needed and how frequently  | Yes | NA      | This can be as simple as the biweekly conference calls with EPA and USACE or a simple email.<br>Added to Section 14.2: “Throughout the duration of the project, bi-weekly status reports will be provided in a conference call or by electronic mail if a call is not held.”   |
| b. Identifies who should write these reports and who should receive this information  | Yes | NA      | Per comment in a. above.<br>Also added to Section 14.2: “The status reports will be prepared by the PM and transmitted to the RPM.”  |

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| <b>D. Data Validation and Usability</b>  |    |    |  |
|--|----|----|--|
| <b>D1. Data Review, Verification, and Validation</b>   |    |    |  |
| Describes criteria that should be used for accepting, rejecting, or qualifying project data  | NA | NA |  |
| <b>D2. Verification and Validation Methods</b>   |    |    |  |
| a. Describes process for data verification and validation, providing SOPs and indicating what data validation software should be used, if any  | NA | NA |  |
| b. Identifies who is responsible for verifying and validating different components of the project data/information, for example, chain-of-custody forms, receipt logs, calibration information, etc. | NA | NA |  |
| c. Identifies issue resolution process, and method and individual responsible for conveying these results to data users  | NA | NA |  |
| d. Attaches checklists, forms, and calculations  | NA | NA |  |
| <b>D3. Reconciliation with User Requirements</b>   |    |    |  |
| a. Describes procedures to evaluate the uncertainty of the validated data  | NA | NA |  |
| b. Describes how limitations on data use should be reported to the data users  | NA | NA |  |